TLC FINAL TERM EXAMINATIONS 2021
SIMEON

LEARNER'S NAME : ……

CLASS: ……

MATHEMATICS PAPER 2 **1 hour 30 minutes**

Additional Materials: **Protractor** required.

READ THESE INSTRUCTIONS FIRST

1. Candidates to answer **ALL** questions on the Question Paper. Show working where needed.
2. Write in **DARK BLUE** or **BLACK** pen. Draw graph/diagram in pencil.
3. Do not use **correction fluid /tape.**
4. Take note of the number of marks given in brackets **[ ]** at the end of each question.
5. Dictionaries, calculators and electronic devices are **NOT ALLOWED**.
6. An **answer booklet (lined paper)** is provided for this question paper. If you need additional answer paper, ask the invigilator for extra lined paper.
7. Total marks for the paper is 5**0.**

DO NOT turn exam paper over until instructed to do so

This document contains of **9** printed pages

SECTION A

Answer **ALL** questions in the lines provided in the booklet. **[Total Marks 50]**

1. (a) Here is a list of numbers.

23 28 33 43 45 52 59

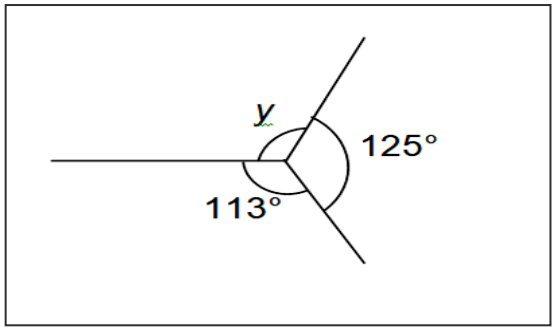
Draw a ring around two numbers with a total of 82. [1]

(b) Here is a list of the same numbers.

23 28 33 43 45 52 59

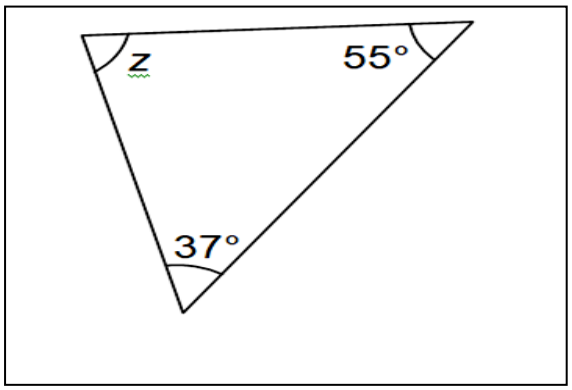
Draw a ring around two numbers with a difference of 7. [1]

2. a) Calculate the value of angle *y* in each figure below. (The figures are not drawn to scale.)



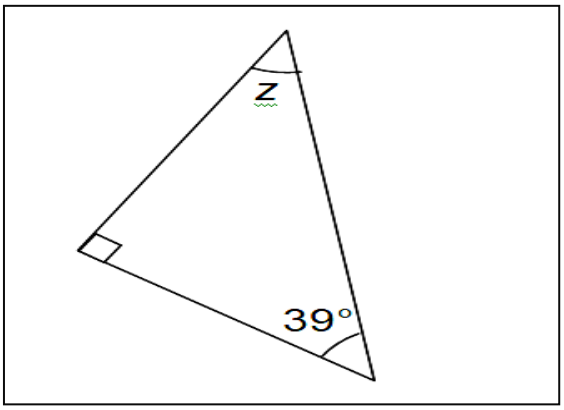
..... ° [2]

b) Calculate the value of angle *z* in each figure below. (The figures are not drawn to scale.)



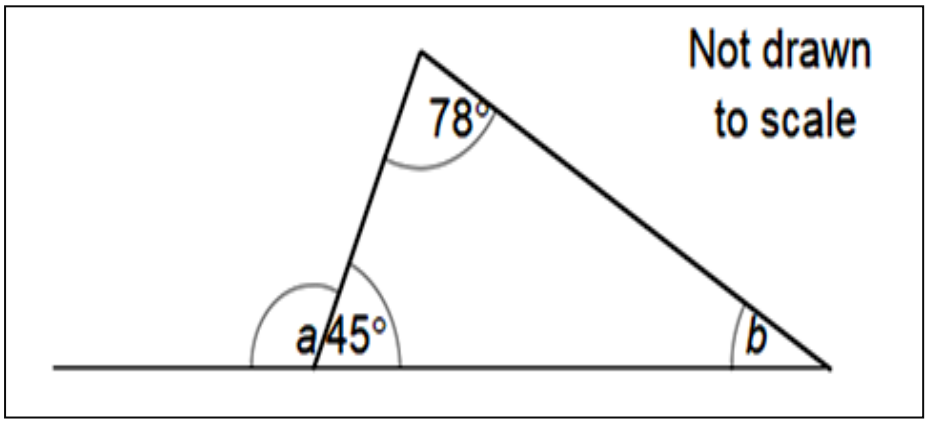
..... ° [2]

c) Calculate the value of angle *z* in each figure below. (The figures are not drawn to scale.)



..... ° [2]

3. Look at this diagram.



a) Calculate the size of angle *a.*

a = ... °[2]

b) Calculate the size of angle b.

b = ... °[2]

4. Complete the calculation. $\frac{4}{10} + \frac{}{\square} = 1$

…….... [1]

5. The product of two **prime** numbers is 39. What are the two numbers?

…….... [1]

6. Abdul asked some children to choose their favourite fruit.

Fruit	Number
Bananas	○○◔
Oranges	○○○○
Peaches	
Apples	○○

○ equals 10 children

(a) How many children chose apples and bananas?

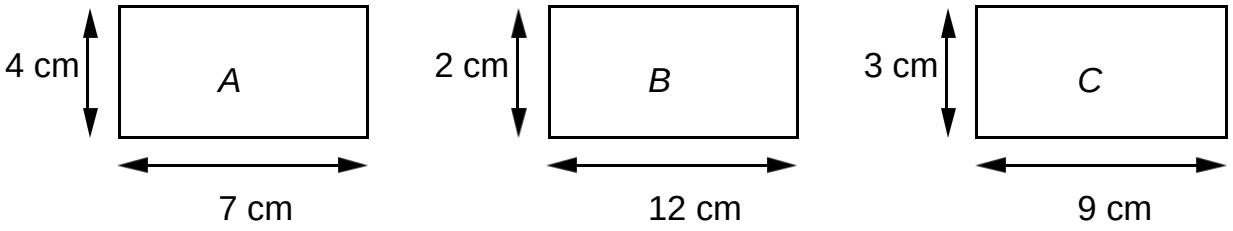
.....children [2]

(b) 45 children chose peaches. Show this on the chart. [1]

(c) How many children participated in the survey in total?

.....children [2]

7. Look at the three rectangles.



Not drawn to scale

Which rectangle has the largest area? Show calculations to explain your answer.

……..... [4]

8. Draw a ring around all the **prime** numbers.

4 7 9 11 14 18 20

[2]

9. Here is a recipe for Chocolate Milkshake.

Serves 2
Makes 400 ml

2 scoops ice cream
250 ml milk
30 ml melted chocolate

(a) Ron makes enough milkshake for 6 people. How much melted chocolate did he use?

..... ml [2]

(b) Ron has 600 m/ of milkshake left. How much ice cream does it contain?

……..... scoops [2]

(c) Ron has 10 new customers placing their order. He only has 50ml of milk left. Each packet of milk comes in 1l. How many packets of milk should he buy?

……..... packets [3]

10. Here are four calculations.

16.4 × 3.3

140.643 ÷ 2.7

167.36 ÷ 3.2

17.6 × 3

a) Which calculation gives the **largest** answer?

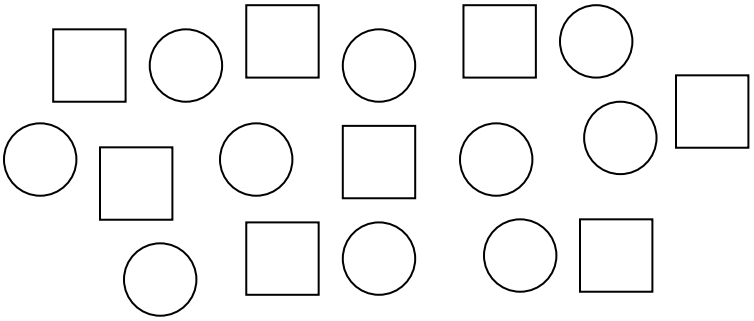
..... [2]

b) Which calculation gives the **smallest** answer?

..... [2]

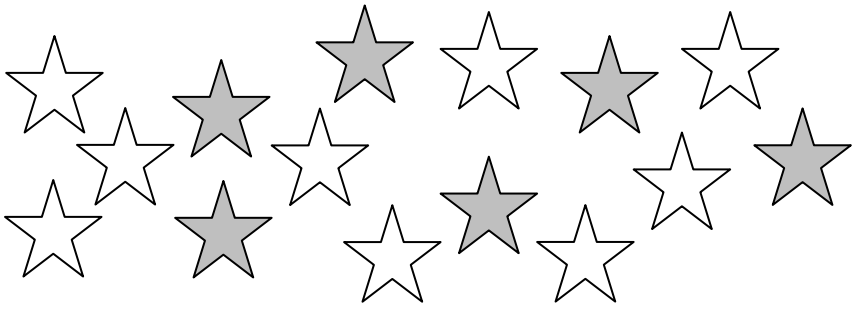
11. Express the ratios in their simplest forms.

(a) Ratio of the number of circles to the number of squares.



..... [2]

(b) Ratio of the number of unshaded stars to the shaded stars.



..... [2]

12. Three ice creams and a chocolate bar cost $3.30. One ice cream costs 75 cents. What does a chocolate bar cost?

$.....[2]

13. The ratio of the number of female passengers to the number of male passengers on a bus was 4 : 5. At the next bus stop, 5 passengers alighted and 8 passengers boarded the bus. There is a total of 39 passengers now. How many female passengers were there in the bus at first?

..... [2]

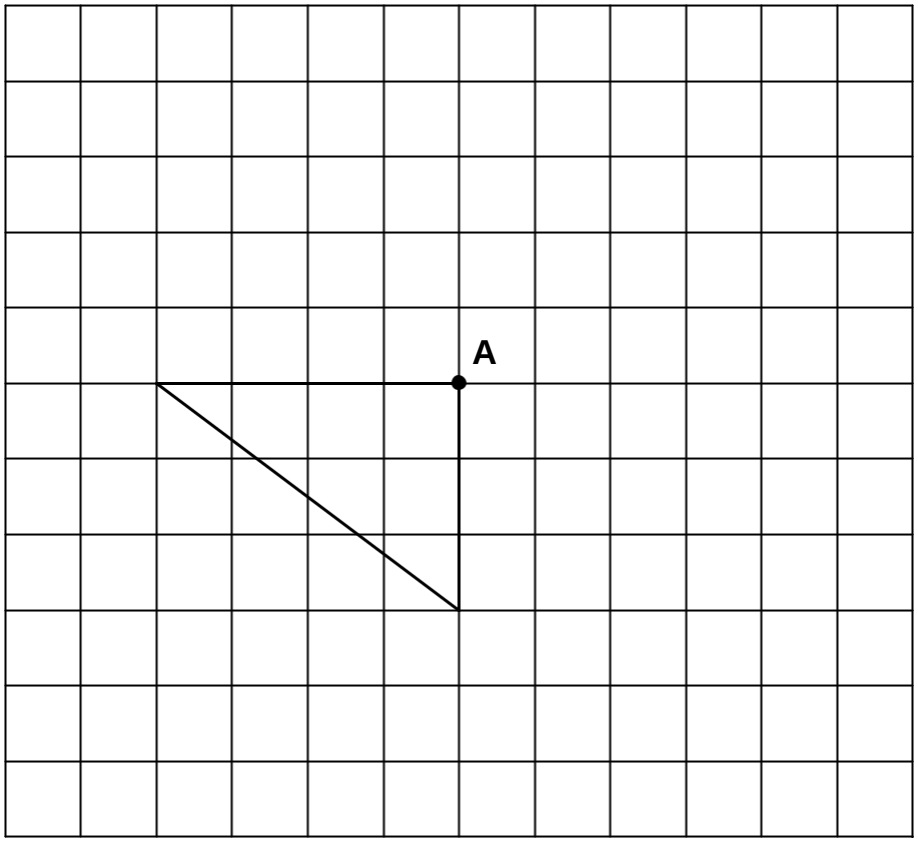
14. Wee Leong mixed 5 litres of apple juice with 4 litres of orange juice to make 9 litres of fruit punch. How many litres of apple juice is needed to make 18 litres of fruit punch?

..... [2]

15. Jane had a buffet dinner at a restaurant on her birthday and was given a 15% discount. The usual price of the buffet dinner was $40. What was the price she paid after discount?

..... [2]

16. Here is a triangle on a grid



It is rotated about point A through 90º clockwise. Draw the new position of the triangle on the grid. [2]

THIS IS THE END OF THE QUESTION PAPER